Line 11, delete "(40)".

Line 12, delete "(50)" and "(30)".

Line 13, delete "(10)".

Line 14, delete "(60,70)".

Line 16, delete "(10)".

Line 17, change "; and an" to --. Additionally, an--, and change "80" to --is provided--.

Line 18, delete "(10)".

Line 20, delete "(80)".

Line 23, delete "(10)".

IN THE CLAIMS:

Please cancel, without prejudice, claims 1-5 in the underlying PCT application.

Please add the following new claims:

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6. (New) A tunable interferometer for measuring an optical surface, comprising:

at least one light source;

a reference surface, light from the at least one light source impinging the reference surface, the reference surface reflecting a first interference beam;

a test object, light from the at least one light source impinging the test object, the test object reflecting a second interference beam;

at least one beam splitter, the first interference beam and the second interference beam striking the at least one beam splitter; and

a polarizer polarizing the first interference beam and the second interference beam so that the first

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interference beam and the second interference beam each have a different polarization state relative to one another; and

an analyzer positioned at an output of the interferometer, the analyzer having a variable polarization state, the analyzer tuning the interferometer as a function of the polarized first interference beam and the second interference beam.

7. (New) The interferometer according to claim 5, wherein the interferometer is a two-beam interferometer, wherein the light is a linearly polarized light, and wherein the polarizer includes a first $\lambda/4$ retardation plate allocated to one of the reference surface and the test object, and a second $\lambda/4$ retardation plate positioned before the analyzer.

8. (New) The interferometer according to claim 5, wherein the analyzer includes a rotatable linear analyzer.

9. (New) The interferometer according to claim 5, wherein the analyzer includes an electrically tunable liquid-crystal element with a linear polarizer.

10. (New) The interferometer according to claim 5, wherein the analyzer is arranged physically separate from the interferometer.

REMARKS

This Preliminary Amendment cancels, without prejudice, claims 1-5 in the underlying PCT The new claims conform the claims to U.S. Patent and Trademark Office rules and do not add new matter to the application.

The above amendments to the specification and the abstract are, inter alia, to conform the specification and the abstract to U.S. Patent and Trademark Office rules and to correct informalities. The amendments to the specification and the abstract do not add new matter.

The underlying PCT Application No. PCT/EP98/02494 includes an International Search Report, dated August 26,